

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/98
Date Received: 10/01/98
Project: Metro Self Monitor, PO# M60885
Date Samples Extracted: 10/09/98
Date Extracts Analyzed: 10/09/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M60885	0.39	0.33	0.38	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 809107-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.06	0.06	0	0-20
Copper	mg/L (ppm)	<0.05	<0.05	nm	0-20
Nickel	mg/L (ppm)	0.06	0.06	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 809107-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.06	103	105	80-120	2
Copper	mg/L (ppm)	5	<0.05	99	101	80-120	2
Nickel	mg/L (ppm)	10	0.06	103	106	80-120	3
Zinc	mg/L (ppm)	5	<0.05	110	112	80-120	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	104	101	80-120	3
Copper	mg/L (ppm)	5	103	101	80-120	2
Nickel	mg/L (ppm)	10	105	102	80-120	3
Zinc	mg/L (ppm)	5	105	103	80-120	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

810007

mm 10.1.98 A.I. per

Send Report To:

Company

Address 628 Howard

City, State, Zip Seattle WA 98134

Phone # 206-382-8379

Contact

Gerald Thompson

FAX # 206 382-4309

Date 10-1-98

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7258

Metro Self-monitors

IN 60885

SAMPLERS (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION

Dispose after 30 days

Return Samples

Call for Instructions

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Relinquished by:

4/5

GERARD A. Thompson

Acu

10/1/58

10:30 Am

Received by:

SCOTT A. DURBLE

$F \in B, INC$

10/1/98

10:20 AM

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 14, 1998

DUPLICATE COPY

INVOICE #98ACU1014-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M60885: Results of testing requested
by Gerry Thompson for material submitted on October 1, 1998.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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October 14, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

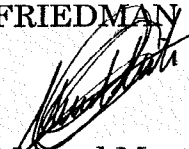
Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 1, 1998 from your Metro Self Monitor, PO# M60885 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU1014R.DOC